

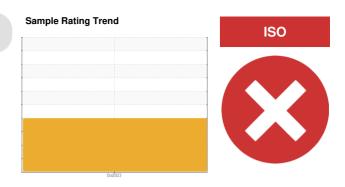
PROBLEM SUMMARY

DUMPER #11

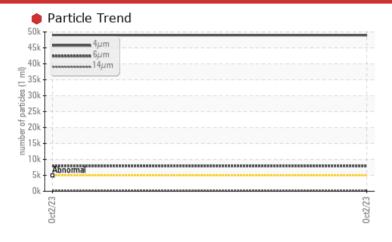
Component

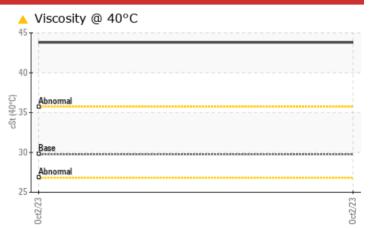
Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 32 (3 LTR)



COMPONENT CONDITION SUMMARY





RECOMMENDATION

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. The fluid was specified as PETRO CANADA PURITY FG AW HYDRAULIC 32, however, a fluid match indicates that this fluid is ISO 46 Synthetic (PAG) Fire-Resistant Fluid. Please confirm the oil type and grade on your next sample. Please specify the component make and model with your next sample.

PROBLEMATIC TEST RESULTS										
Sample Status				SEVERE						
Particles >4µm		ASTM D7647	>5000	48978						
Particles >6µm		ASTM D7647	>1300	7907						
Particles >14µm		ASTM D7647	>160	4 339						
Particles >21µm		ASTM D7647	>40	^ 76						
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/20/16						
Appearance	scalar	Visual*	NORML	▲ HAZY						
Visc @ 40°C	cSt	ASTM D7279(m)	29.77	43.8						

Customer Id: GRA685CAM Sample No.: WC0850444 Lab Number: 02586774 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			
Resample			?	Resample in 30-45 days to monitor this situation.			
Alert			?	The fluid was specified as PETRO CANADA PURITY FG AW HYDRAULIC 32, however, a fluid match indicates that this fluid is ISO 46 Synthetic (PAG) Fire-Resistant Fluid. Please confirm the oil type and grade on your next sample.			
Information Required			?	Please specify the component make and model with your next sample.			
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.			
Check Fluid Source			?	Confirm the source of the lubricant being utilized for top-up/fill.			
Check Seals			?	Check seals and/or filters for points of contaminant entry.			

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DUMPER #11 Component

Hydraulic System

PETRO CANADA PURITY FG AW HYDRAULIC 32 (3 LTR)

DIAGNOSIS

Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Confirm the source of the lubricant being utilized for top-up/fill. Resample in 30-45 days to monitor this situation. The fluid was specified as PETRO CANADA PURITY FG AW HYDRAULIC 32, however, a fluid match indicates that this fluid is ISO 46 Synthetic (PAG) Fire-Resistant Fluid. Please confirm the oil type and grade on your next sample. Please specify the component make and model with your next sample.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The water content is negligible.

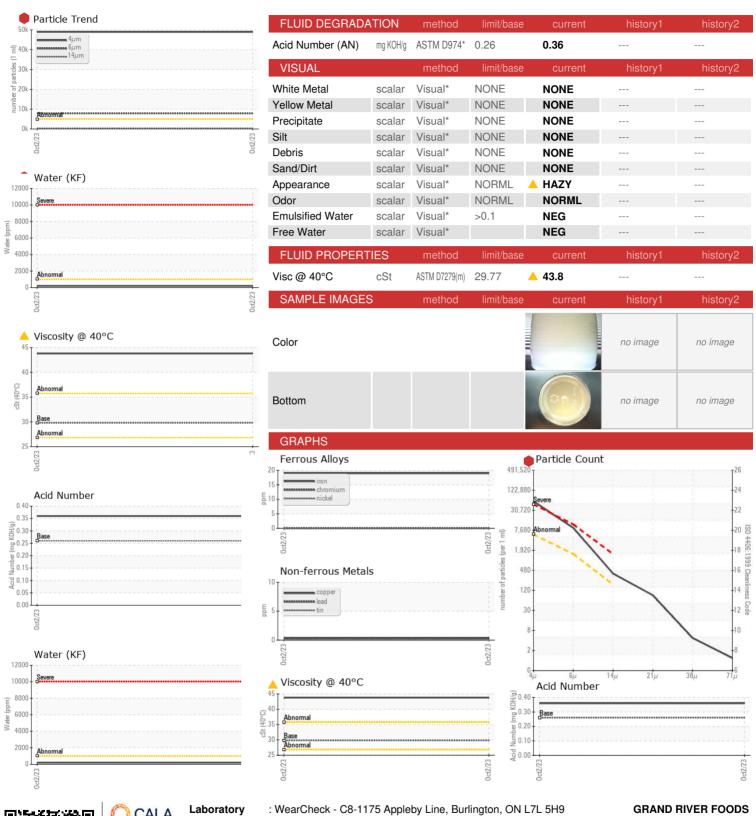
▲ Fluid Condition

Viscosity of sample indicates oil is within ISO 46 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

LIC 32 (3 LTN)				Oct2023		
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0850444		
Sample Date		Client Info		02 Oct 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		3		
Oil Changed		Client Info		N/A		
Sample Status				SEVERE		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	19		
Chromium	ppm	ASTM D5185(m)	>10	0		
Nickel	ppm	ASTM D5185(m)	>10	0		
Titanium	ppm	ASTM D5185(m)		0		
Silver	ppm	ASTM D5185(m)		<1		
Aluminum	ppm	ASTM D5185(m)	>10	5		
Lead	ppm	ASTM D5185(m)	>10	<1		
Copper	ppm	ASTM D5185(m)	>75	<1		
Tin	ppm	ASTM D5185(m)	>10	0		
Antimony	ppm	ASTM D5185(m)		0		
Vanadium	ppm	ASTM D5185(m)		0		
Beryllium	ppm	ASTM D5185(m)		0		
Cadmium	ppm	ASTM D5185(m)		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1		
Barium	ppm	ASTM D5185(m)		<1		
Molybdenum	ppm	ASTM D5185(m)		0		
Manganese	ppm	ASTM D5185(m)		0		
Magnesium	ppm	ASTM D5185(m)		1		
Calcium	ppm	ASTM D5185(m)		6		
Phosphorus	ppm	ASTM D5185(m)		199		
Zinc	ppm	ASTM D5185(m)		7		
Sulfur	ppm	ASTM D5185(m)		113		
Lithium	ppm	ASTM D5185(m)		<1		
CONTAMINANT	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>20	4		
Sodium	ppm	ASTM D5185(m)		2		
Potassium	ppm	ASTM D5185(m)	>20	2		
Water	%	ASTM D6304*	>0.1	0.020		
ppm Water	ppm	ASTM D6304*	>1000	203.4		
FLUID CLEANLI	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	48978		
Particles >6µm		ASTM D7647	>1300	^ 7907		
Particles >14µm		ASTM D7647	>160	339		
Particles >21µm		ASTM D7647	>40	^ 76		
Particles >38µm		ASTM D7647	>10	4		
Particles >71µm		ASTM D7647	>3	1		
Oil Cleanliness		ISO 4406 (c)	>19/17/14	23/20/16		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Sample No. Lab Number **Unique Number**

: WC0850444

Received : 02586774 Diagnosed : 5655840

Diagnostician : Kevin Marson

: 04 Oct 2023

: 06 Oct 2023

Test Package : IND 2 (Additional Tests: KF)

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

190 VONDRAU DRIVE CAMBRIDGE, ON

CA N3E 1B8 Contact: Ryan Shea rshea@grandriverfoods.com

T: (519)653-3577

F: